

# Propanamide, 3-phenyl-N-ethyl-N-tetradecyl-

<b>Inchi:</b>	InChI=1S/C25H43NO/c1-3-5-6-7-8-9-10-11-12-13-14-18-23-26(4-2)25(27)22-21-24-19-1
<b>InchiKey:</b>	YZHRGGVCMRKQDV-UHFFFAOYSA-N
<b>Formula:</b>	C25H43NO
<b>SMILES:</b>	CCCCCCCCCCCCCN(CC)C(=O)CCc1ccccc1
<b>Mol. weight [g/mol]:</b>	373.62

## Physical Properties

Property code	Value	Unit	Source
gf	253.89	kJ/mol	Joback Method
hf	-367.85	kJ/mol	Joback Method
hfus	59.17	kJ/mol	Joback Method
hvap	82.31	kJ/mol	Joback Method
log10ws	-7.74		Crippen Method
logp	7.169		Crippen Method
mcvol	350.900	ml/mol	McGowan Method
pc	960.88	kPa	Joback Method
rinpol	3320.00		NIST Webbook
tb	864.39	K	Joback Method
tc	1060.51	K	Joback Method
tf	480.33	K	Joback Method
vc	1.351	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1141.72	J/mol×K	864.39	Joback Method
cpg	1161.77	J/mol×K	897.08	Joback Method
cpg	1180.66	J/mol×K	929.76	Joback Method
cpg	1198.45	J/mol×K	962.45	Joback Method
cpg	1215.22	J/mol×K	995.14	Joback Method
cpg	1231.03	J/mol×K	1027.83	Joback Method
cpg	1245.96	J/mol×K	1060.51	Joback Method

# Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U415404&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U415404&amp;Units=SI</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvac:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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